## **AMENDMENTS TO THE CLAIMS**

This listing of the claims will replace all previous versions and listings of the claims.

- 1. (Currently amended) A method for delaying or reversing a retinal or choridal degenerative disease or condition in a subject, the method comprising contacting a retinal or choroidal cell or extracellular matrix of a retinal or choroid of a subject having, or at risk of developing, a retinal or choridal degenerative disease or condition with an agent that modulates decreases the expression or activity of an AMDP-related or phagocytosis-related gene or product thereof protein.
- 2. (Previously presented) The method of claim 1, wherein said AMDP-related or phagocytosis-related gene is selected from the group consisting of human unknown PHG-1; prostaglandin D2 synthase; myelin basic protein; human unknown PHG-4; human unknown PHG-5; human peanut-like 2/septin 4; coactosin-like 1; clusterin; casein kinase 1 epsilon; ferritin heavy polypeptide 1; metargidin; human unknown PHG-13; retinaldehyde binding protein 1; actin gamma 1; matrix metalloproteinase, membrane-associated 1 (MT1-MMP); SWI/SNF related/OSA-1 nuclear protein; and human unknown AMDP-3; said AMDP-related or phagocytosis-related genes comprising the respective nucleotide sequences identified as SEQ ID NOS:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 17.
- 3. (Original) The method of claim 2, wherein said AMDP-related or phagocytosis-related gene is matrix metalloproteinase, membrane-associated 1 (MT1-MMP), said gene comprising the nucleotide sequence of SEQ ID NO:15.
- 4. (Previously presented) The method of claim 1, wherein said retinal or choridal degenerative disease or condition is age-related macular degeneration (AMD).
  - 5. (Original) The method of claim 4, wherein said subject suffers from AMD.

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- 6. (Original) The method of claim 4, wherein said subject is at risk of developing AMD.
- 7. (Original) The method of claim 1, wherein the method delays the retinal of choridal degenerative disease or condition.
- 8. (Previously presented) The method of claim 1, wherein the method reverses the retinal or choroidal degenerative disease or condition.
- 9. (Original) The method of claim 1, wherein said cell is a photoreceptor, an RPE cell, a Muller cell, or a cell type of the choroid selected from the group consisting of an endothelial cell, a smooth muscle cell, a leukocyte, a macrophage, a melanocyte and a fibroblast.
- 10. (Original) The method of claim 9, wherein said AMDP-related or phagocytosis-related gene is MT1-MMP, and said MT1-MMP is located within said cell.
- 11. (Original) The method of claim 9, wherein said AMDP-related or phagocytosis-related gene is MT1-MMP and said MT1-MMP is located in an extracellular matrix.
- 12. (Original) The method of claim 11, wherein said extracellular matrix is an interphotoreceptor matrix.
- 13. (Previously presented) The method of claim 1, wherein said agent down-regulates expression of a nucleic acid or amino acid sequence of an AMDP-related or phagocytosis-related gene, said gene selected from the group consisting of MT1-MMP, prostaglandin D2 synthase and AMDP-3.
- 14. (Withdrawn) The method of claim 13, wherein said agent is an oligonucleotide selected from the group consisting of a ribozyme, an antisense RNA, an

interfering RNA (RNAi) molecule and a triple helix forming molecule.

15. (Original) The method of claim 13, wherein said agent is an antibody that specifically binds to a MT1-MMP, prostaglandin D2 synthase or AMDP-3 protein or peptide.

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- 16. (Original) The method of claim 15, wherein said antibody neutralizes at least one biological activity of MT1-MMP, prostaglandin D2 synthase or AMDP-3.
- 17. (Original) The method of claim 16, wherein said AMDP-related or phagocytosis-related gene is MT1-MMP and said biological activity is activation of progelatinase A or degradation of extracellular matrix.
- 18. (Withdrawn) The method of claim 13, wherein said agent is a small molecule.
- 19. (Withdrawn) A method of determining risk of a subject of developing a retinal or choridal degenerative disease or condition, the method comprising screening a nucleic acid sequence of said subject for the presence of at least one polymorphism in at least one phagocytosis-related or AMDP-related gene, wherein the presence of a polymorphism in at least one of said genes indicates that the subject is at higher risk for developing a a retinal or choridal degenerative disease or condition, than a subject without said polymorphism.
- 20. (Withdrawn) The method of claim 19, wherein said phagocytosis-related gene comprises a nucleic acid sequence selected from the group consisting of SEQ ID NOS:1-17.
- 21. (Withdrawn) The method of claim 19, wherein said AMDP-related gene comprises a nucleic acid sequence selected from the group consisting of SEQ ID

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NOS:2, 9, 10, 16, and 17.

- 22. (Withdrawn) The method of claim 19, wherein said polymorphism is within an intronic, exonic or promoter sequence of said phagocytosis-related or AMDP-related gene.
- 23. (Withdrawn) The method of claim 19, wherein said polymorphism is within a region of the human MT1-MMP gene that can be amplified by PCR using amplimer pairs having nucleic acid sequences selected from the group consisting of SEQ ID NOS: 18 and 19; 20 and 21; 22 and 23; 24 and 25; 26 and 27; 28 and 29; 30 and 31; 32 and 33; 34 and 35; 36 and 37; 38 and 39; 40 and 41; 42 and 43; 44 and 45; 46 and 47; 48 and 49; 50 and 51; 52 and 53; 54 and 55; 56 and 57; and 57 and 58.
- 24. (Withdrawn) The method of claim 19, wherein said polymorphism is within a 285 bp fragment of exon 5 of the human MT1-MMP gene.
- 25. (Withdrawn) The method of claim 24, wherein said polymorphism is a D273N missense polymorphism.
- 26. (Withdrawn) The method of claim 24, wherein said polymorphism is a P259P synonymous polymorphism.
- 27. (Withdrawn) A method of treating a retinal or choridal degenerative disease or condition in a subject, the method comprising contacting a retinal or choroidal cell of said subject with a vector that includes a nucleic acid encoding an agent that down-regulates or inhibits expression of a nucleic acid or amino acid sequence of an AMDP-related or phagocytosis-related gene.
- 28. (Withdrawn) The method of claim 27, wherein said AMDP-related or phagocytosis-related gene is selected from the group consisting of prostaglandin D2 synthase, MT1-MMP, and AMDP-3, said genes comprising the respective nucleic acid

sequences of SEQ ID NOS:2, 15 and 17.

- 29. (Withdrawn) The method of claim 27, wherein said agent is selected from the group consisting of a ribozyme, an antisense RNA, or an interfering RNA (RNAi) molecule.
- 30. (Withdrawn) A method of treating a retinal or choridal degenerative disease or condition in a subject, the method comprising contacting a retinal or choroidal cell of said subject with a vector that includes a nucleic acid encoding a wild type or polymorphic variant of an AMDP-related or phagocytosis-related protein.
- 31. (Withdrawn) A composition for prevention or treatment of a retinal or choridal degenerative disease or condition in a subject, the composition comprising an agent that blocks the expression or activity of an AMDP-related or phagocytosis-related protein.
- 32. (Withdrawn) The composition of claim 31, wherein said protein is MT1-MMP, prostaglandin D2 synthase or AMDP-3.
- 33. (Withdrawn) A composition for prevention or treatment of a retinal or choridal degenerative disease or condition in a subject, the composition comprising a vector that includes a nucleic acid encoding a wild type or polymorphic form of an AMDP-related or phagocytosis-related protein.
- 34. (Withdrawn) The composition of claim 33, wherein said AMDP-related or phagocytosis-related protein is MT1-MMP.
- 35. (Withdrawn) A nonhuman transgenic animal comprising an isolated nucleic acid construct, said construct causing at least one cell type of said animal to overexpress MT1-MMP, prostaglandin D2 synthase or AMDP-3.

36. (Withdrawn) The transgenic animal of claim 35, wherein said overexpression is conditionally controlled.

- 37. (Withdrawn) The transgenic animal of claim 36, wherein said cell type is a retinal cell type selected from the group of consisting of a photoreceptor, an RPE cell and a Muller cell, or a choroidal cell type selected from the group consisting of an endothelial cell, a smooth muscle cell, a leukocyte, a macrophage, a melanocyte, and a fibroblast.
- 38. (Withdrawn) A nonhuman transgenic animal comprising an isolated nucleic acid construct, said construct causing at least one cell type of said animal to express a polymorphic variant of an AMDP-related or phagocytosis-related nucleic acid and/or protein.
- 39. (Withdrawn) The transgenic animal of claim 38, wherein said polymorphic variant is correlated with an increased incidence in a population of humans with AMD, compared to a normal control population.

40-52. (Cancelled)

53. (Previously presented) The method of claim 1, wherein the nucleic acid sequence of said AMDP-related or phagocytosis-related gene encodes a human MT1-MMP protein, and comprises the sequence set forth in SEQ ID NO:15, or a polymorphic variant thereof.

54-56. (Cancelled)

57. (Previously presented) The method of claim 15, wherein said antibody is selected from the group consisting of a polyclonal antibody, a monoclonal antibody, a single chain antibody and an Fab fragment.

- 58. (Currently amended) The method of claim 15, wherein the antibody is administered by intraocular injection into the eye.
  - 59. (Cancelled)
- 60. (Previously presented) The method of claim 57, wherein said antibody is administered to the subretinal space.
  - 61. (Cancelled)
  - 62. (Cancelled)